

Safe Work Procedure: Using Hydraulic Press

Department/Area:	Approved by:	Date Created:	Review/Revision Date:
Maintenance	Workplace Safety and Health Committee	Dec. 1, 2023	Annually

Potential Hazard	Risk level
Compression	High
Sharp points/edges	Medium
Pinch points	High
Materials falling	Low
Moving machinery	Low
Eye injuries – flying or shattering objects	High

Risk control devices, personal protective equipment, and other safety considerations	Training/Reference info
<ul style="list-style-type: none"> • Eye protection • Approved safety shoes • Close fitting protective clothing 	<ul style="list-style-type: none"> • Operations manual • On-the-Job training

Note: Common signs and symptoms of a musculoskeletal injury (MSI) can include pain, burning, swelling, stiffness, numbness/tingling, and/or loss of movement or strength in a body part. Report these to your supervisor.

The direct supervisor must ensure that employees who report to him/her are trained and follow this safe work procedure.

Steps to complete this task safely:

PRE-Operational safety checks

1. Ensure you are familiar with the operation of the hydraulic press.
2. Ensure press is in good working order without visible damage to structure or hydraulic fluid leaks.
3. Ensure no slip/trip hazards are present in workspaces and walkways.
4. The press table must be clean and steel weights are flat and secure on press table.
5. Any forming die or cutting die must be inspected for safe use i.e. no cracks.
6. Monitor and limit applied force to within specifications.
7. Ensure safety glasses or goggles are available and are worn by all persons in the vicinity.
8. Any test piece, project or material (work piece) to be pressed must be of an appropriate thickness and safe to use on this equipment.
9. Faulty equipment must not be used. Immediately report suspect machinery.

Operation

1. Read the owner's manual for the hydraulic press before the first operation.



2. Put on the PPE as listed above.
3. Inspect the hydraulic press before use.
4. Test the controls
5. Confirm clearance.
6. Clear all debris, equipment, tools, people, and material from hydraulic press area.
7. Place your test piece, project or material (work piece) securely on the press table.
8. Turn ON the power switch.
9. Use the press handle, in a pumping action, to slowly lower the press hammer.
10. Keep hands and fingers away from all clamping and moving parts.
11. Carefully and accurately align the press hammer face with the work piece for even force to be applied.
12. Once the work piece is pressed sufficiently, release the hammer pressure at the release valve.
13. DO NOT apply excessive force with the press
14. To change press adapters, turn OFF the power switch, unscrew the set screw in the pressing bracket sleeve. Remove the adapter, and insert the desired adapter, seating it completely. Tighten the set screw.
15. When the work is complete, turn OFF the power switch, remove all material, and clean up work area.

POST-Operation

1. Ensure the press is off before cleaning it. If there is a large amount of dust/debris, wear eye protection and a disposable respirator while cleaning.
2. Clean up any oil spills immediately.
3. Use a brush, not your hands, to remove chips from the machine. Do not clean up while the machine is running.
4. Follow operator's manual for maintenance and repair.
5. Place all metal scraps in metal bin
6. If machine is out of service Lock Out/Tag Out policy applies.
7. Make sure tools are stored in their proper location
8. Keep the work area neat and tidy and watch out for tripping hazard.